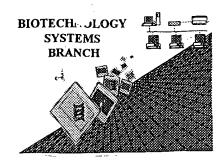
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RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/891,064	
Source:	OIPE	\
Date Processed by STIC:	8/19/2001	

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/89/064
ATTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY TTO SOFTWAR
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatenUn 2.0 "bug"	A "bug" in Patentin version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
(OLD RULES)	Sequence(s)missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
•	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
(NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
(NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or XBa, and which residue n or Xaa represents.
Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
"bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

AMC - Biotechnology Systems Branch - 06/04/2001

RAW SEQUENCE LISTING PATENT APPLICATION US/09/891,064

DATE: 08/11/2001 TIME: 02:33:31

INPUT SET: S36597.raw

This Raw Listing contains the General Information Section and up to the first 5 pages. (FNERAL INFORMATION: 1 SEQUENCE LISTING Does Not Comply 3 (1) General Information Corrected Diskette Needed 4 5 APPLICANT\$: James M. Anderson (i)6 Christina M. Van Itallie 7 8 (ii) TITLE OF INVENTION: Human Occludin, Its Uses 9 and Enhancement of Drug Absorption Using Occlu-10 din Inhibitors 11 12 (iii) NUMBER OF SEQUENCES: 6 1.3 (iv) CORRESPONDENCE ADDRESS: Liset color often all heading 14 15 (A) ADDRESSEE: Yale University Medical School 16 17 Section of Pulmonary and Critical Care Medicine 18 Department of Internal Medicine 19 (B) STREET: 333 Cedar Street, LCI 105 (C) CITY: New Haven 20 21 (D) STATE: Connecticut 22 (E) COUNTRY: United States of America 23 (F) ZIP GODE: 065220-8057 24 (V) COMPUTER READABLE FORM: 25 26 27 (A) MEDIUM TYPE: 3.5" 1.44 Mb diskette 28 (B) COMPUTER: IBM PC 29 (C) OPERATING SYSTEM: MS DOS 30 (D) SOFTWARE: Word Processing 31 (vi) CURRENT APPLICATION DATA : __ 32 33 (A) APPLICATION NUMBER: 34 35 (B) FILING DATE: June 25, 2001 36 (C) CLASSIFICATION: 37 (vii) PRIOR APPLICATION DATA 2 4-38 39 40 (A) APPLICATION NUMBER: U.S. 09/142,732 41 (B) FILING DATE: September 15, 1998 42 (C) CLASSIFICATION: 530-350.000 43 3 ATTORNEY/ALENT INFORMATION: (viii) ATTORNEY INFORMATION 44 45 (A) NAME: Mary M. Krinsky 46

FyI: all U.S. appliestroni filed on or often fuly 1,1998 and which carnot claim a prior oppliestroni filed before July 1,1998, need to be in hew Sequera Rules format.

RAW SEQUENCE LISTING DATE: 08/11/2001 PAGE: 2 PATENT APPLICATION US/09/891,064 TIME: 02:33:32 NymBFR NPUT SET: S36597.raw (B) REGISTRATION NO. 32423 47 (C) REFERENCE/DOCKET NUMBER: OCR-754.CIP 48 49 TELECOMMUNICATION INFORMATION 50 (ix) 51 (A) TELEPHONE NUMBER: 203-773-9544 52 (B) TELEFAX NUMBER: 203-773-1183(2) INFORMATION FOR SE 53 SEQUENCE CHARACTERISTICS: 54 (i) (A) LENGTH: 2312 55 (B) TYPE: nucleic acid 56 57 (C) STRANDEDNESS: single 58 (D) TOPOLOGY: linear 59 (ii) MOLECULE TYPE: 60 (A) DESCRIPTION: cDNA 61 (V) FRACMENT TYPE: complete sequence 62 (ix) FEATURE: 63 (A) NAME/KEY: human occludin SEQUENCE DESCRIPTION: SEQ ID NO: 1: 64 (xi) GCCTCTCTCC ATCAGACACC CCAAGGTTCC ATCCGAAGCA GGCGGAGCAC 65 50 CGAACGCACC CCGGGGTGGT CAGGGACCCC CATCCGTGCT GCCCCCTAGG 66 100 67 AGCCGGGGC TCTCCTCTGC GCCCGCCTC TCGGGCCGCA ACATCGCGCG 150 68 GTTCCTTTAA CAGCGCGCTG GCAGGGTGTG GGAAGCAGGA CCGCGTCCTC 200 CCGCCCCTC CCATCCGAGT TTCAGGTGAA TTGGTCACCG AGGGAGGAGG 69 250 CCGACACAC ACACCTACAC TCCCGCGTCC ACCTCTCCCT CCCTGCTTCC 70 71 TCTTGGCGGA GGCGGCAGGA ACCGAGAGCC AGGTCCAGAG CGCCGAGGAG 350 CCGGTCTAGG ACGCAGCAGA TTGGTTTATC TTGGAAGCTA AAGGGCATTG 400 72 CTCATCCTGA AGATCAGCTG ACCATTGACA ATCAGCCATG TCATCCAGGC 73 450 CTCTTGAAAG TCCACCTCCT TACAGGCCTG ATGAATTCAA ACCGAATCAT 500 74 TATGCACCAA GCAATGACAT ATATGGTGGA GAGATGCATG TTCGACCAAT 550 75 76 GCTCTCTCAG CCAGCCTACT CTTTTTACCC AGAAGATGAA ATTCTTCACT 600 TCTACAAATG GACCTCTCCT CCAGGAGTGA TTCGGATCCT GTCTATGCTC 77 650 78 ATTATTGTGA TGTGCATTGC CATCTTTGCC TGTGTGGCCT CCACGCTTGC 700 CTGGGACAGA GGCTATGGAA CTTCCCTTTT AGGAGGTAGT GTAGGCTACC 750 79 CTTATGGAGG AAGTGGCTTT GGTAGCTACG GAAGTGGCTA TGGCTATGGC 80 TATGGTTATG GCTATGGCTA CGGAGGCTAT ACAGACCCAA GAGCAGCAAA 81 GGGCTTCATG TTGGCCATGG CTGCCTTTTG TTTCATTGCC GCGTTGGTGA 82 TCTTTGTTAC CAGTGTTATA AGATCTGAAA TGTCCAGAAC AAGAAGATAC 8.3 TACTTAAGTG TGATAATAGT GAGTGCTATC CTGGGCATCA TGGTGTTTAT 1000 84 TGCCACAATT GTCTATATAA TGGGAGTGAA CCCAACTGCT CAGTCTTCTG 1050 85 GATCTCTATA TGGTTCACAA ATATATGCCC TCTGCAACCA ATTTTATACA 1100 86 CCTGCAGCTA CTGGACTCTA CGTGGATCAG TATTTGTATC ACTACTGTGT 1150 87 TGTGGATCCC CAGGAGGCCA TTGCCATTGT ACTGGGGTTC ATGATTATTG 1200 88 TGGCTTTTGC TTTAATAATT TTCTTTGCTG TGAAAACTCG AAGAAAGATG 1250 89 90 GACAGGTATG ACAAGTCCAA TATTTTGTGG GACAAGGAAC ACATTTATGA 1300 TGAGCAGCCC CCCAATGTCG AGGAGTGGGT TAAAAATGTG TCTGCAGGCA 1350 91 92 CACAGGACGT GCCTTCACCC CCATCTGACT ATGTGGAAAG AGTTGACAGT 1400 93 CCCATGGCAT ACTCTTCCAA TGGCAAAGTG AATGACAAGC GGTTTTATCC 1450 AGAGTCTTCC TATAAATCCA CGCCGGTTCC TGAAGTGGTT CAGGAGCTTC 1500 94 CATTAACTTC GCCTGTGGAT GACTTCAGGC AGCCTCGTTA CAGCAGCGGT 1550 95 GGTAACTTTG AGACACCTTC AAAAAGAGCA CCTGCAAAGG GAAGAGCAGG 1600 96 AAGGTCAAAG AGAACAGAGC AAGATCACTA TGAGACAGAC TACACAACTG 1650 97 GCGGCGAGTC CTGTGATGAG CTGGAGGAGG ACTGGATCAG GGAATATCCA 1700 98

CCTATCACTT CAGATCAACA AAGACAACTG TACAAGAGGA ATTTTGACAC 1750

RAW SEQUENCE LISTING PATENT APPLICATION US/09/891,064

DATE: 08/11/2001 TIME: 02:33:32

	INPUT SET: S36597,raw	
100	TGGCCTACAG GAATACAAGA GCTTACAATC AGAACTTGAT GAGATCAATA 1800	
101	AAGAACTCTC CCGTTTGGAT AAAGAATTGG ATGACTATAG AGAAGAAAGT 1850	
102	GAAGAGTACA TGGCTGCTGC TGATGAATAC AATAGACTGA AGCAAGTGAA 1900	
103	GGGATCTGCA GATTACAAAA GTAAGAAGAA TCATTGCAAG CAGTTAAAGA 1950	
104	GCAAATTGTC ACACATCAAG AAGATGGTTG GAGACTATGA TAGACAGAAA 2000	
105	ACATAGAAGG CTGATGCCAA GTTGTTTGAG AAATTAAGTA TCTGACATCT 2050	
106	CTGCAATCTT CTCAGAAGGC AAATGACTTT GGACCATAAC CCCGGAAGCC 2100	
107	AAACCTCTGT GAGCATCACA AAGTTTTGGG TTGCTTTAAC ATCATCAGTA 2150	
108	TTGAAGCATT TTATAAATCG CTTTTGATAA TCAACTGGGC TGAACAACTC 2200	
109	CAATTAAGGA TTTTATGCTT TAAACATTGG TTCTTGTATT AAGAATGAAA 2250	
110	TACTGTTTGA GGTTTTTAAG CCTTAAAGGA AGGTTCTGGT GTGAACTAAA 2300	
111	CTTTCACACC CC 2312	
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113		
114	(2) INFORMATION FOR SEQ ID NO: 2:	
115	(i) SEQUENCE CHARACTERISTICS:	
116	(A) LENGTH: 522	
117	(B) TYPE: amino acid	
118	(C) STRANDEDNESS: single	
119	(D) TOPOLOGY: linear	
120	(ii) MOLECULE TYPE:	1
121	(A) DESCRIPTION: polypeptide	+
122	(v) FRAGMENT TYPE: complete sequence	, un
123	(ii) MOLECULE TYPE: (A) DESCRIPTION: polypeptide (v) FRAGMENT TYPE: complete sequence (ix) FEATURE: (A) NAME/KEY: human occludin	1 0
124	(A) NAME/KEY: human occludin	H(i
125	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:	103
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127	Met Ser Ser Arg Pro Leu Glu Ser Pro Pro Pro Tyr Arg Pro Asp	
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133	Gly Glu Met His Val Arg Pro Met Leu Ser Gln Pro Ala Tyr Ser	
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136	Phe Tyr Pro Glu Asp Glu Ile Leu His Phe Tyr Lys Trp Thr Ser	
137	50 55 6	0
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139	Pro Pro Gly Val Ile Arg Ile Leu Ser Met Leu Ile Ile Val Met	
140	65 70 7.	5
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142	Cys Ile Ala Ile Phe Ala Cys Val Ala Ser Thr Leu Ala Trp Asp	
143	80 85 9	0
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145	Arg Gly Tyr Gly Thr Ser Leu Leu Gly Gly Ser Val Gly Tyr Pro	
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148	Tyr Gly Gly Ser Gly Phe Gly Ser Tyr Gly Ser Gly Tyr Gly Tyr	
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151	Gly Tyr Gly Tyr Gly Tyr Gly Gly Tyr Thr Asp Pro Arg	
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RAW SEQUENCE LISTING PATENT APPLICATION US/09/891,064

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156 157 158 159	Ala	Ala	Leu	Val	Ile	Phe Val 155	Thr	Ser	Val	Ile	Arg Ser 160	Glu	Met		165
160 161 162	Ser	Arg	Thr	Arg	Arg	Tyr Tyr 170	Leu	Ser	Val	Ile	Ile Val 175	Ser	Ala		180
163 164 165	Ile	Leu	Gly	Ile	Met	Val Phe 185	Ile	Ala	Thr	Ile	Val Tyr 190	Ile	Met		195
166 167 168	Gly	Val	Asn	Pro	Thr	Ala Gln 200	Ser	Ser	Gly	Ser	Leu Tyr 205	Gly	Ser		210
169 170 171	Gln	Ile	Tyr	Ala	Leu	Cys Asn 215	Gln	Phe	Tyr	Thr	Pro Ala 220	Ala	Thr		225
172 173 174	Gly	Leu	Tyr	Val	Asp	Gln Tyr 230	Leu	Tyr	His	Tyr	Cys Val 235	Val	Asp		240
175 176 177	Pro	Gln	Glu	Ala	Ile	Ala Ile 245	Val	Leu	Gly	Phe	Met Ile 250	Ile	Val		255
178 179 180	Ala	Phe	Ala	Leu	Ile	Ile Phe 260	Phe	Ala	Val	Lys	Thr Arg 265	Arg	Lys		270
181 182 183	Met	Asp	Arg	Tyr	Asp	Lys Ser 275	Asn	Ile	Leu	Trp	Asp Lys 280	Glu	His		285
184 185 186	Ile	Tyr	Asp	Glu	Gln	Pro Pro 290	Asn	Val	Glu	Glu	Trp Val 295	Lys	Asn		300
187 188 189	Val	Ser	Ala	Gly	Thr	Gln Asp 305	Val	Pro	Ser	Pro	Pro Ser 310	Asp	Tyr		315
190 191 192	Val	Glu	Arg	Val	Asp	Ser Pro 320	Met	Ala	Tyr	Ser	Ser Asn 325	Gly	Lys		330
193 194 195	Val	Asn	Asp	Lys	Arg	Phe Tyr 335	Pro	Glu	Ser	Ser	Tyr Lys 340	Ser	Thr		345
196 197 198	Pro	Val	Pro	Glu	Val	Val Gln 350	Glu	Leu	Pro	Leu	Thr Ser 355	Pro	Val		360
199 200 201	Asp	Asp	Phe	Arg	Gln	Pro Arg 365	Tyr	Ser	Ser	Gly	Gly Asn 370	Phe	Glu		375
202 203 204	Thr	Pro	Ser	Lys	Arg	Ala Pro 380	Ala	Lys	Gly	Arg	Ala Gly 385	Arg	Ser		390
205	Lys	Arg	Thr	Glu	Gln	Asp His	Tyr	Glu	Thr	Asp	Tyr Thr	Thr	Gly		

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PAGE: 1

SEQUENCE VERIFICATION REPORT PATENT APPLICATION *US/09/891,064*

DATE: 08/11/2001 TIME: 02:33:33

INPUT SET: S36597.raw

Line	Error	Original Text
12	Number of Sequences (6) Doesn't Equal Actual Count (5)	(iii) NUMBER OF SEQUENCES: 6
42 54	Wrong Classification Unknown or Misplaced Identifier	(C) CLASSIFICATION: 530-350.000 (i) SEQUENCE CHARACTERISTICS:
55	Unknown or Misplaced Identifier	(A) LENGTH: 2312
56 57	Unknown or Misplaced Identifier Unknown or Misplaced Identifier	(B) TYPE: nucleic acid (C) STRANDEDNESS: single
58	Unknown or Misplaced Identifier	(D) TOPOLOGY: linear
59 60	Unknown or Misplaced Identifier Unknown or Misplaced Identifier	(ii) MOLECULE TYPE: (A) DESCRIPTION: cDNA
61	Unknown or Misplaced Identifier	(v) FRAGMENT TYPE: complete sequence
62 63	Unknown or Misplaced Identifier Unknown or Misplaced Identifier	(ix) FEATURE: (A) NAME/KEY: human occludin
64	Unknown or Misplaced Identifier	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1: